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THE COA

LIST

OF

TOWERS, BEACONS, BUOYS, STAKES,

AND

OTHER DAY-MARKS

IN

THE SEVENTH LIGHT-HOUSE DISTRICT:

EMBRACING

THE COAST OF FLORIDA, FROM JUPITER INLET TO EGMONT KEY, TAMPA BAY, AND CEDAR KEYS, INCLUSIVE; TOGETHER WITH ALL THE ADJACENT ISLANDS, KEYS, AND REEFS.

CORRECTED TO MAY, 1871.

CHARLES A. BABCOCK, COMMANDER U. S. NAVY,
Light-house Inspector Seventh District; Office, Key West, Florida.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1871.

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STATE LAWS, &c.

AN ACT passed by the Legislature of the State of Florida for the protection of beacons and buoys.

CHAPTER II. SECTION 1. If any person or persons shall, maliciously or without authority, cut down, remove, or destroy any beacon or beacons, buoy or buoys, erected by any commission of pilotage, or by any other person or persons duly authorized for that purpose, he, she, or they shall, on conviction, be fined not exceeding one thousand dollars, or whipped not exceeding thirty-nine stripes, at the discretion of the jury.

Approved July 28, 1847.

W. D. MOSELY,
Governor of Florida.

By the Governor:
JAMES T. ARCHER,
Secretary of State.

DIRECTIONS.

In conformity to the terms of the act of Congress, approved September 28, 1850, prescribing the manner of coloring and numbering the buoys along the coasts and in the bays, sounds, rivers, and harbors of the United States, the following order must be observed, viz:

1. In approaching the channel, &c., from seaward, RED BUOYS, with EVEN NUMBERS, will be found on the STARBOARD side of the channel, and must be left on the STARBOARD hand in passing in.

2. In approaching the channel, &c., from seaward, BLACK BUOYS, with ODD NUMBERS, will be found on the PORT side of the channel, and must be left on the PORT hand in passing in.

3. Buoys painted with RED AND BLACK HORIZONTAL STRIPES will be found on obstructions, with channel-ways on either side of them, and may be left on either hand in passing in.

4. Buoys painted with WHITE AND BLACK PERPENDICULAR STRIPES will be found in MIDCHANNEL, and must be passed close-to to avoid danger.

5. All other distinguishing marks to buoys will be in addition to the foregoing, and may be employed to mark particular spots; a particular description of which will be given in the printed list of buoys.

6. Perches with balls, cages, &c., will, when placed, be at turning-points, the color and number indicating on which side they shall be passed.

7. No deviation from the foregoing directions will be permitted.

8. Lists of beacons and buoys, &c., will be published from time to time, showing their relative positions in each harbor, channel, bay, sound, &c., and a particular description of each given in the proper columns.

9. Red buoys are marked on Coast Survey Charts, R, Nos. 2, 4, 6, 8, &c.; black buoys are marked on Coast Survey Charts, B, Nos. 1, 3, 5, 7, &c.; red and black horizontally striped buoys are marked on Coast Survey Charts, H. S., without numbers; white and black perpendicularly striped buoys are marked on Coast Survey Charts, P. S., without numbers.

By order of the Light-house Board:

TREASURY DEPARTMENT,
Office Light-house Board, Washington, D. C.

NOTICE TO MARINERS.

Mariners and others interested in commerce and the preservation of life and property from loss by shipwreck on our coasts, are earnestly requested to give prompt information to the Inspectors, Engineers, or Superintendents of Lights, or to this Board, by direct communication, of cases in which lights are not lighted punctually at sunset and extinguished at sunrise, or in which they are not properly attended to during the night, or in which light-vessels and buoys are out of position, and of all cases in which the published instructions from this Board are not strictly executed, that the Board may, with as little delay as possible, apply the proper remedy, and prevent neglect of duty in matters connected with the lights, beacons, and buoys of the United States.

OFFICE LIGHT-HOUSE BOARD, WASHINGTON.

Masters of vessels and others *are forbidden to make their vessels fast to buoys or stakes, or to use them for warping purposes.* These aids are provided for the purpose of rendering navigation safe and easy to all mariners, and must not, therefore, be wilfully moved, injured, or interfered with by any one.

FOG-SIGNALS ON BOARD UNITED STATES LIGHT-VESSELS.

Notice is hereby given that, on and after the first day of January, 1859, vessels approaching or passing light-vessels of the United States, *in foggy or thick weather*, will be warned of their proximity by the alternate ringing of a BELL and sounding of a FOG-HORN on board of the light-vessels, at intervals not exceeding five minutes.

TREASURY DEPARTMENT,

Office Light-house Board, Washington, D. C., October 5, 1858.

NOTE.

The day-beacons along the Florida Reefs, from FOWEY ROCKS, "P" to EASTERN SAMBO, "A," (between Cape Florida and Sand Key Light-houses,) are composed each of an iron shaft, thirty feet in height, erected on iron-pile foundations, *distinguished by a vane*, upon which one of the letters of the alphabet is shown in their regular order from "P" to "A" to Eastern Sambo inclusive, (from northward and eastward to southward and westward,) and from Eastern Sambo to west channel into Key West by other letters of the alphabet, and above it is a *lattice-work hoop-iron cylinder or barrel.*

The colors (white, black, and red) are used in painting each of these beacons to render them as striking to the eye of the mariner as possible, and so combined that no two adjacent beacons have the same colors upon like parts. Masters of vessels may ascertain their positions in latitude and longitude by referring to the list for these beacons as they are passed.

These beacons are placed on the most projecting and dangerous points on the Florida Reefs, and are, in general, from four to six miles from the seaward shores of the Florida Keys, and within half a mile, in *every case*, of the edge of the Gulf stream. The depth of water where these beacons stand does not exceed four feet at low tide.

These beacons may be approached from seaward within a few hundred yards; but it would be prudent at all times (and especially in light winds, or in threatening or bad weather) to give them a good berth.

In moderate weather, it frequently happens, (especially after easterly gales,) that the force and direction of the Gulf stream sets *across the reefs*, carrying the vessels imperceptibly into danger, although the course steered would, if made good, carry them well outside of all danger.

When one of these beacons is discovered to the eastward of a vessel, the master may be certain that he is between the Reefs and Keys, and most likely surrounded by shoals and dangerous rocks or reefs

The *Turtle Harbor* and *Coffin's Patches* beacons differ in appearance from the other described beacons with letters of the alphabet, and will be found fully described in their proper places on the list.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from the northward and eastward, to mark the Florida Coast and Reefs from Jupiter Light-house to the Gulf at Dry Tortugas, Florida.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoys.	General remarks, sailing directions, and other information necessary or useful to mariners.
JUPITER INLET LIGHT-HOUSE.	Red	.....	F V. F. light. Tower of brick of natural color, and the lantern brown; 146 ft. in height.	This tower is between Jupiter inlet and Gilbert's bar, Florida.	.....	This is a first order light, fixed varied by flashes. A fixed white light, varied every 45 seconds by a brilliant flash of 7½ seconds duration. The coast is clear from this light to the entrance of the Florida Pass, north of Key Biscayne Cape Florida.
North end of Florida Reefs Buoy.	Red	2	1st class nun.....	Cape Florida light-house, SW. by S. ¼ S. Northeastern point of Virginia Key, NW. by W. ¾ W. Northeastern end of Key Biscayne, W. by S. ¼ S.	17	This buoy is placed to the north of the 16-feet spot marked on the chart, and close to it. It marks the first foul ground in approaching the eastern and northern entrance to the Florida Pass, distant 2½ miles about due east from the southern end of Virginia Key and the northern side of the entrance to "Bear's Cut." Vessels bound through the Pass, going south, will leave this buoy on the starboard hand. Small vessels bound into Hawk channel will leave it on the port hand, and steer south for the midchannel buoy, (perpendicular stripes,) 2½ miles distant.
Midchannel Buoy.....	Perpendicular stripes.	.....	2d class can.....	Cape Florida light-house, SW. ¾ W. Red buoy, No. 2, N. by E. Key Biscayne, N. Eastern Point, NW. ¼ W.	21	This buoy is placed near the midchannel line leading into Hawk channel, with foul ground with 16, 17, and 18 feet of water over it to the eastward, and may be passed by light draught vessels on either hand; but vessels bound outside the reef must give it a berth to starboard.
Midchannel Buoy. ...	Perpendicular stripes.	.....	2d class can	Cape Florida light-house, NW. by W. Red buoy, No. 2, N. by E. Key Biscayne, N. Eastern Point, N. NW. Fowey Rocks beacon, "P.," S. SE. ¼ E.	20	This buoy is placed near the midchannel line leading into the Hawk channel, to the southward and westward of foul ground, with 15 feet of water over it. Vessels passing outside of the reefs should not approach this buoy nearer than a mile to starboard, if bound south.
CAPE FLORIDA LIGHT-HOUSE.	White	.....	Height of tower 95 feet; fixed white light of the 2d order.	This tower is on the south point of Key Biscayne, Florida.	.....	There is a cluster of tall cocoanut trees near the keeper's dwelling, which serves as a good day distinguishing mark for the light-station.
Fowey Rocks Beacon, "P."	Cylinder white, shaft and vane black.	.....	Beacon, letter "P," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Cape Florida light-house, NW. ¾ N. Soldier Key, W.	1	This beacon is placed near the edge of the Gulf stream, latitude 25° 35′ 23″ north; longitude 80° 05′ 51″ west of Greenwich.
Triumph Reef Beacon, "O."	Cylinder red, shaft and vane white.	.....	Beacon, letter "O," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Elliot's Key, No. 1, S. 82° 29′ 26″ W., (true.) Soldier Key, N. 21° 04′ 14″ W., (true.)	.....	This beacon is placed on the seaward edge of Triumph reef, in 25° 28′ 37″ north latitude, and 80° 06′ 50″ west longitude.
Long Reef Beacon, "N."	Cylinder black, shaft and vane red.	.....	Beacon, letter "N," painted white; hoop-iron lattice-work; cylinder black, shaft and vane red.	Elliot's Key, No. 1, N. 52° 15′ 21″ W., (true.) Soldier Key, N. 13° 53′ 51″ W., (true.)	.....	This beacon is placed not far from the seaward edge of the reef, in latitude 25° 26′ 45″ north; longitude 80° 07′ 21″ west.
Ajax Reef Beacon, "M."	Cylinder white, shaft and vane black.	.....	Beacon, letter "M," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Elliot's Key, No. 2, S. 79° 35′ 43″ E., (true.) Elliot's Key, No. 1, S. 26° 06′ 05″ E., (true.)	.....	This beacon is placed on the seaward edge of the reef, in latitude 25° 24′ 09″ north; longitude 80° 07′ 59″ west.
Pacific Reef Beacon, "L."	Cylinder red, shaft and vane white.	.....	Beacon, letter "L," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Old Rhodes Key, S. 76° 29′ 51″ W., (true.) Elliot's Key, No. 1, N. 15° 48′ 15″ W., (true.)	.....	This beacon is placed on Pacific Reef, 5½ miles from Old Rhodes Key, and 7 1-10 nautical miles from Elliot's Key, No. 1, in 25° 22′ 13″ north latitude, and 80° 08′ 30″ west longitude.
Turtle Reef Beacon, "K."	Cylinder black, shaft and vane red.	.....	Beacon, letter "K," painted white; hoop-iron lattice-work; cylinder black, shaft and vane red.	Old Rhodes Key, S. 22° 20′ 47″ E., (true.) Cæsar's Creek bank, S. 06° 28′ 07″ W., (true.)	.....	This beacon is placed near the northern extremity of Turtle reef and the southern side of the entrance to Turtle harbor; distant from Old Rhodes Key 4 4-10 nautical miles, and from Cæsar's creek 6 1-10 nautical miles. It is in 25° 16′ 52″ north latitude, and 80° 12′ 34″ west longitude.
Turtle Harbor Beacon.	Black, 36 ft. high.	.....	An iron shaft, 6 inches in diameter, 36 feet in height, surmounted at the height of 24 ft. above the water by two ellipses, at right angles, made of open lattice-work, 8 feet by 5 feet, and at the top by two circles of lattice-work, 3 feet in diameter. The whole presents the appearance of two balls, respectively, 8 feet and 3 feet in diameter; and the whole structure painted black.	Turtle Reef beacon, W. ¾ N., (magnetic.) Carysfort Reef light-house, S. SE., (magnetic.)	.....	This beacon is placed on Turtle Harbor shoals, inside of Turtle reef, and serves to mark the entrance to Turtle harbor.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from the northward and eastward, to mark the Florida Coast and Reefs from Jupiter Light-house to the Gulf at Dry Tortugas, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water spring tides, in feet, of buoys.	General remarks, sailing directions, and other information necessary or useful to mariners.
CARYSFORT REEF LIGHT-HOUSE.	Dark brown	.....	Iron-pile light-house structure; the tower and keeper's dwelling painted brown. The dwelling is octagonal in shape. 1st order revolving light every 30 seconds, at an elevation of 108 feet above the mean level of the sea.	.....	.....	This light-house is placed close to the seaward edge of the reef, in 25° 13′ 15″ north latitude, and 80° 12′ 45″ west longitude.
Elbow Reef Beacon, "J."	Cylinder white, shaft and vane black.	.....	Beacon, letter "J," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Grecian Shoal beacon, S. 69° 45′ 40″ W., (true.) Carysfort Reef light-house, N. 26° 29′ 35″ E., (true.)	.....	This beacon is placed on the seaward edge of the reef, distant 2 4-10 nautical miles from the Grecian Shoal beacon, and 5 4-10 nautical miles from Carysfort light-house, in 25° 08′ 32″ north latitude, and 80° 15′ 40″ west longitude. This shoal is of small area, being about one mile long, with an average breadth of about one-fourth of a mile. It lies about 1½ mile outside of the general line of the reefs, detached, with deep water between it and the main reef of Grecian shoal.
Grecian Shoal Beacon, "H."	Cylinder red, shaft and vane white.	.....	Beacon, letter "H," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Sound Point, S. 45° 58′ 23″ E., (true.) Basire Bank, S. 21° 24′ 32″ W., (true.)	.....	This beacon is on the seaward edge of the Grecian shoal, distant 3 9-10 nautical miles from Sound Point and 5 3-10 nautical miles from Basire Hill bank, in 25° 07′ 22″ north latitude, and 80° 17′ 57″ west longitude. This shoal is on the seaward extremity of the main tread of the reefs, with foul water outside of it to a little more than a mile to seaward of it, and therefore should not be approached by large vessels nearer than two miles.
French Reef Beacon, "G."	Cylinder black, shaft and vane red.	.....	Beacon, letter "G," painted red; hoop-iron lattice-work; cylinder black, shaft and vane red.	Lower Sound Point, S. 32° 33′ 53″ E., (true.) Point Willie, S. 16° 30′ 07″ E., (true.)	.....	This beacon is placed on French reef, 5 nautical miles from Lower Sound Point and 6 2-10 nautical miles from Point Willie, in 25° 02′ 06″ north latitude, and 80° 21′ 05″ west longitude. It is close on the edge of the reef, with deep water close to it.
Pickle's Reef Beacon, "F."	Cylinder white, shaft and vane black.	.....	Beacon, letter "F," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Point Charles, S. 16° 57′ 43″ E., (true.) Lower Sound Point, S. 6° 34′ 30″ W., (true.)	.....	This beacon is placed on the seaward edge of Pickle's reef, 5 2-5 nautical miles from Point Charles, and 7 nautical miles from Lower Sound Point, in 24° 59′ 22″ north latitude, and 80° 21′ 55″ west longitude. It is close to the seaward edge of the reef, with a clear coast and deep water close up to it. From a position abreast of Pickle's Reef beacon, and one mile distant, a vessel may run safely by the lead, in a SW. ¼ W. compass course, and carry not less than 4 fathoms water until 9 fathoms are struck to the southward and westward of the foul ground (12 and 14 feet water) off Tennessee reef; but this should only be attempted under steam and in daylight, to avoid the strength of the current.
Conch Reef Beacon, "E."	Cylinder red, shaft and vane white.	.....	Beacon, letter "E," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Rodriguez Key, S. 40° 30′ W., (magnetic.) Tavernier Key, S. 43° 30′ E., (magnetic.)	.....	This beacon is placed on Conch reef, in 24° 56′ 36″ north latitude, and 80° 27′ 50″ west longitude. It is on the seaward edge of the reef, with bold water close-to.
Crocker's Reef Beacon, "D."	Cylinder black, shaft and vane red.	.....	Beacon, letter "D," painted white; hoop-iron lattice-work; cylinder black, shaft and vane red.	Snake Creek Point, S. 39° 15′ E., (magnetic.)	.....	This beacon is placed on Crocker's reef, about 4 miles from Snake Creek Point, in 24° 49′ 08″ north latitude, and 80° 38′ 08″ west longitude. The coast is clear, with bold water close up to it.
Alligator Reef Beacon, "C." (Light-house building in place of Beacon.)	Cylinder white, shaft and vane black.	.....	Beacon, letter "C," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Indian Key, S. 66° 30′ E., (magnetic.) distant 5 miles.	.....	This beacon is placed on Alligator reef, in 24° 49′ 08″ north latitude, and 80° 38′ 08″ west longitude. This reef is at the seaward extremity (southward and westward) of the banks and shoals making out from Indian Key, Tea-table Key, and Upper Mattacombe, and where they terminate. An iron screw-pile light-house is under construction for this point.
Tennessee Reef Beacon, "C."	.....	.....	Building.....	.....	.....	This reef has no less than 13 feet of water over it. There is a shoal spot with 13 and 14 feet of water over it, bearing S. by E. ¼ E. from the eastern extremity of Long Key, and distant from that point 4 nautical miles.
Coffin's Patches Beacon.	Black.....	.....	An iron shaft, 6 inches in diameter, 40 feet high, with 2 ellipses at right angles to each other 25 feet above the water. These ellipses are made of open lattice-work, 8 feet by 5, presenting the appearance of a ball. At 33 feet from the water there is an open lattice cross, with arms 9 inches broad, extending 3 ft. from the shaft. On the top there is a ball, 15 ins. in diameter; and the entire structure painted black.	Dry Bank light-house, S. 67° 30″ W., (true.)	.....	This beacon is placed on Coffin's Patches, near the seaward edge of the reef, and bears about south from Duck Key. The coast from one mile outside of Coffin's Patches beacon to a point one mile outside Dry Bank light-house is clear, with plenty of water.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from the northward and eastward, to mark the Florida Coast and Reefs from Jupiter Light-house to the Gulf at Dry Tortugas, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
DRY BANK LIGHT-HOUSE.	Dark		Iron-pile structure, off Dry Bank, Sombrero Key, and near to Delta Shoal. An open frame-work of iron, and CIRCULAR dwelling for the keepers. Height of tower, 144 feet above water. First order fixed light.			This light-house is placed on "Sombrero" shoals, off Dry Bank, Sombrero Key, about 1¼ mile to the westward of "Delta" shoal, and 10 miles to the westward of the centre of "Coffin's Patches," in 24° 37′ 36″ N. latitude, and 81° 09′ 43″ W. longitude. The coast to the westward of Dry Bank light-house is clear for about 12 nautical miles, and until the shoals making out from Looe Key are washed in going westward.
Looe Key Beacon				Building		
American Shoal Beacon, "B."	Cylinder red, shaft and vane white.		Beacon, letter "B," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Loggerhead Key, N. 22° 16′ 35″ E., (true.) Eastern Sambo beacon, S. 76° 35′ 59″ W., (true.)		This beacon is placed on the seaward edge of the American shoal, about 6 nautical miles from Loggerhead Key, and 8 nautical miles from the Eastern Sambo beacon, in 24° 31′ 24″ N. latitude, and 81° 31′ 16″ W. longitude. The coast is clear outside this shoal, and the water bold to within from ¼ to ½ mile. The western end of Maryland shoal, with 10 feet water over it, is on the general trend of these reefs and shoals, distant 3 nautical miles.
Maryland Shoal Beacon, "A 2."			A 2	Building		
Eastern Sambo Beacon, "A."	Cylinder black, shaft and vane red.		Beacon, letter "A," painted white; hoop-iron lattice work; cylinder black, shaft and vane red.	Geiger's house, N. 3° 29′ 24″ E., (true.) South Saddle hills, N. 13° 13′ 01″ W., (true.)		This beacon is placed on the Eastern Sambo, near the seaward side, with Speculator's shoal 1 mile to the eastward, Pelican shoal 2 miles to the eastward, and Western Sambo 3 miles to the westward, in 24° 29′ 32″ N. latitude, and 81° 39′ 55″ W. longitude.
Western Sambo Beacon, "Z."			Z	Building		
East Channel Shoal Buoy.	Red	2	1st class can	Key West light-house, NW. ¾ N. Sand Key light house, W. by S. ¼ S.	24	This buoy is placed just to the westward of the 16-feet spot of the shoal forming the eastern side of the entrance by the East channel leading into Key West harbor, and marks the seaward extremity of the shoal to the westward of the Western Sambo shoals. To be left on the starboard hand going to the westward, and also for entering by the Key West east channel.
Point of Reef Buoy	Red	4	1st class can	Sand Key light-house, W. by S. ¼ S. Key West light-house, N. by W. ¾ W.	24	This buoy is placed just to the westward of the 18-feet spot, and the eastern side of the entrance to Key West by that passage, as shown by the chart. 1½ mile to the westward of the East Channel Shoal buoy, and 1¼ mile to the eastward of the Main Channel Entrance buoy, (perpendicular stripes.) To be left on the starboard hand going westward, and also in entering Key West harbor by that passage.
Main Channel Entrance Buoy.	Perpendicular stripes.		1st class nun	Sand Key light-house, W. by S. ¾ S. Key West light-house, N. ¼ W.	27	This buoy is placed in midchannel of the main entrance into Key West harbor. Vessels passing to the westward should give it a good berth to starboard. Vessels bound into Key West by the main ship channel must pass it close-to on either hand, and steer N. ¼ W., with Key West light-house a little open on the port bow. (See directions for going into Key West harbor.)
KEY WEST LIGHT-HOUSE, (HARBOR LIGHT.)	White		Light-house tower, to the southward and eastward of the town of Key West. Fixed white light, 3d order; 50 feet high.			This light-house is in the town of Key West, on the southward and eastward side, 5 nautical miles from the Entrance buoy of the main channel, and serves to distinguish the place, and as a leading mark to the different passages and channels into the harbor; in 24° 32′ 58″ N. latitude, and 81° 48′ 07″ W. longitude.
SAND KEY LIGHT-HOUSE.	Dark		Iron pile light-house, painted a dark color, and the lantern white. The light is fixed varied by flashes, showing for one minute a bright white light, with a brilliant flash of 10″ duration every alternate minute, which is preceded and followed by partial eclipses of 25″ duration.	This light-house building is on a small sand and shell island on the seaward edge of the reef, 7¼ miles from Key West light-house.		An iron-pile structure; open-work below and above the keeper's apartments and store-rooms surrounding an iron cylinder, upon which the lantern and apparatus for lighting are placed. The light is of the 1st order, and is elevated 110 feet above the mean level of the sea.
Western Dry Rocks Beacon, "Y."			Y	Building		Westward of Sand Key light-house, and marks entrance to the West channel into Key West.
Rebecca Shoal Buoy	Red	6	1st class nun	Dry Tortugas light-house, W. ¼ N.	13	This buoy is placed about due south from the southern and eastern points of the shoal, and to the westward of the 15-feet spot on the Isaac shoal, distant about 1 nautical mile.
Rebecca Shoal Beacon.				Building		

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from the northward and eastward, to mark the Florida Coast and Reefs from Jupiter Light-house to the Gulf at Dry Tortugas, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Tortugas Harbor Entrance Buoy, (East side.)	Red	2	2d class nun	Garden Key light-house, W. ¼ N.	18	This buoy marks the western point of the shoal on the eastern side of the entrance to Dry Tortugas harbor, with 12¼ and 15 fathoms close to it.
Tortugas Harbor Entrance Buoy, (West side.)	Black	1	2d class can	Dry Tortugas light-house, NW. by W. Dry Tortugas Harbor light-house, N. by W.	18	This buoy is placed at the southeast point of the shoal making out from Fort Jefferson, and marks the western side of the passage into Dry Tortugas harbor.
DRY TORTUGAS (FORT JEFFERSON) HARBOR LIGHT-HOUSE.	White		White tower inside of Fort Jefferson, Garden Key, Dry Tortugas. Fixed white light, 4th order, 70 feet above the level of the sea.			This light house is in latitude 24° 37′ 47″ N., and in longitude 82° 52′ 53″ W.
Fort Jefferson Sea-Buoy.	Red	8	1st class nun	Dry Tortugas light-house, N. NW. Dry Tortugas Harbor light-house, N. NE. ¼ E.	18	This buoy marks the southern extremity of the shoal making out from Fort Jefferson, Dry Tortugas, and the eastern side of the passage into Tortugas harbor between Loggerhead Key and the fort. There are but 10 feet water on the shoal at 2¼ nautical miles distant from the fort.
DRY TORTUGAS LIGHT-HOUSE. (LOGGERHEAD KEY.)	White and black.		Tower, 150 feet high; lower half painted WHITE, and the upper half BLACK. Keeper's dwelling placed a little to the southward of the tower. Fixed white light, of the 1st order.	This light-house tower is on Loggerhead Key, the westernmost of the Dry Tortugas group. It is nearly 1 mile long NE. and SW., and 700 feet broad, bordered all around by bushes.		This light-house is in latitude 24° 38′ 12″ N., and in longitude 82° 55′ 45″ W.

Entering from sea, at Cape Florida, to mark the Entrance to and the Hawk Channel and Obstructions inside the Florida Reefs, to Key West.

North end of Florida Reefs Buoy.	Red	2	1st class nun	Cape Florida light-house, SW. by S. ¼ S. Northeastern point of Virginia Key, NW. by W. ¾ W. Northeastern end of Key Biscayne, W. by S. ¼ S.	17	This buoy is placed to the north of the 16-feet spot marked on the chart, and close to it. It marks the first foul ground in approaching the northern and eastern entrance to the Florida Pass, distant 2¼ miles, about due east from the southern end of Virginia Key, and the northern side of the entrance to "Bears Cut." Vessels bound into Hawk channel, inside the outer reefs, will leave this buoy on the port hand and steer due south for first Midchannel (perpendicular stripes) buoy, distant 2¼ miles.
Midchannel Buoy	Perpendicular stripes.		3d class can	Cape Florida light-house, SW. ¾ W. Red buoy, No. 2, N. by E. Northeastern point of Key Biscayne, NW. ¼ W.	21	This buoy is placed near the midchannel line, (running north and south by compass,) leading into the Hawk channel, inside the outer reefs, with foul ground with 16, 17, and 18 feet water over it to the eastward.
CAPE FLORIDA LIGHT-HOUSE.	White		Height of light, (tower,) 95 feet; fixed white light of the 2d order.	This tower is on the south point of Key Biscayne, Florida.		There is a cluster of tall cocoa-nut trees near the light keeper's dwelling, which serves as a good day distinguishing mark for the light-station.
Midchannel Buoy	Perpendicular stripes.		2d class can	Cape Florida light-house, NW. by W. Soldier Key, SW. by S. Fowey Rocks beacon, "P," S. SE. ¼ E.	20	This buoy is placed near the Midchannel line, (running north and south,) leading into the Hawk channel, inside the outer reefs, and to the southward and westward of foul ground, with 15 feet water over it.
Fowey Rocks, (inside) Buoy.	Black	1	3d class nun	Cape Florida light-house, NW. by N. ¼ N. Soldier Key W. ¾ S. Fowey Rocks beacon, "P," E. ¼ S.	20	This buoy is placed nearly due west of the Fowey rocks, and on the port side of the narrow entrance to the inside channel, abreast of the entrance to the channel leading to the westward, and thence north to the anchorage at Cape Florida light-house.

Entering from sea, at Cape Florida, to go inside to the Light-house Anchorage and into Key Biscayne Bay.

Soldier Key Buoy	Perpendicular stripes.		3d class can	Cape Florida light-house, N. NW. ¼ W. Bowles buoy, (north,) S. by W. Soldier Key, W. ¾ S. Fowey Rocks beacon, "P," E. ¼ N.	19	This buoy marks the midchannel leading to Soldier Key, and lies ¼ mile nearly due west from Fowey Rocks (inside) buoy. Vessels bound inside the reefs to the southward, will leave it on the starboard hand; and vessels going to Soldier Key and to the anchorage inside of Key Biscayne, may pass it on either hand.
Coral Bunches Buoy	Black	1	3d class nun	Cape Florida light-house, N. ¾ W. Fowey Rocks buoy, No. 1, W. by S. Fowey Rocks beacon, "P," E. ¼ N.	11	This buoy is placed outside of the Coral Bunches, and near Soldier Key. It marks the point to turn to the north for the light-house and Key Biscayne bay, and should be left on the port hand in going north.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to go inside to the Light-house Anchorage and into Key Biscayne Bay—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Cape Florida Shoals, (inside.)	Red	2	3d class can.....	Coral Bunches buoy, S..... Cape Florida light-house, NW. ¾ N.	9	This buoy marks the turning-point to the northward and westward to go to the light-house and into Key Biscayne bay, and must be left on the starboard hand.

Hawk Channel, inside the Reefs, continued from the Fowey Reefs Buoy, No. 1, going South and West.

Bache's Shoal Buoy...	Red	2	2d class nun	Soldier Key buoy, (P. S.,) N. Sands Cut, SW. by W. North point of Sand Key, W. ¼ S. Fowey Rocks beacon, "P," N. by E. ¾ E.	30	This buoy marks the southern end of the shoals on the starboard side of the entrance to Legare anchorage, and must be left on the starboard hand by vessels going into that anchorage, and given a wide berth by vessels going through the upper channel.
Midchannel Buoy, off Bowles's Bank, (north.)	Perpendicular stripes.	.....	3d class nun.....	North point of Sand Key, W. ½ S. Black buoy, No. 3, S. ¾ E. Bache's Shoal buoy, Red, No. 2, E. by N. ¼ N.	15	This buoy is placed at the point for turning from a S. by W. to a S. ¾ E. course, at the end of Bowles's bank, and may be passed close-to on either hand.
Buoy off Bowles's Bank, (west,) and east side of Channel.	Black	3	3d class can.....	Midchannel buoy, (P. S.,) off Bowles's bank, (north,) N. ¾ W. Sands Cut, W. ¾ S. North point of Sands Key, NW. by W. ¾ W.	15	This buoy is placed at the turning-point from S. ¾ E. to a S. SW. ¼ W. course, and must be left on the port hand close-to.

Entering from sea, at Cape Florida, to mark the Entrance to and Channel and Obstructions inside the Florida Reefs, from Jupiter Light-house to the Gulf at Dry Tortugas, Florida.

Midchannel Buoy, off Elliott's Key.	Perpendicular stripes.	.....	3d class can.....	Long Reef beacon, "N," SE. ¼ E. Triumph Reef beacon, "O," E. ¾ S. Margot Fish Shoal buoy, S. ¾ W.	15	Off eastern end of Elliott's Key, and distant 1 mile. Triumph Reef beacon, 2¼ miles E. ¼ S., in midchannel, at the point where the course must be changed to S. ¾ W. for the next Midchannel buoy, and to avoid Margot Fish shoal, marked by Red buoy, No. 4.
Triumph Reef Beacon, "O."	Cylinder red, shaft and vane white.	.....	Beacon, letter "O," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Elliott's Key, No. 1, S. 82° 30′ 26″ W., (true.) Soldier Key, N. 21° 04′ 14″ W., (true.)	.....	This beacon is placed on the seaward edge of Triumph reef, in 25° 28′ 37″ N. latitude, and 80° 06′ 50″ W. longitude.
Margot Fish Shoal Buoy.	Red	4	2d class nun.....	Long Reef beacon, "N," E. ¾ N. Triumph Reef beacon, "O," NE. ¾ E. Sands Cut, N. ¾ W.	10	This buoy is placed about due east from Margot Fish shoal, and must be left on the starboard hand in going to the southward and westward.
Long Reef Beacon, N.	Cylinder black, shaft and vane red.	.....	Beacon, letter "N," painted white; hoop-iron lattice-work; cylinder black, shaft and vane red.	Elliott's Key, No. 1, N. 52° 15′ 21″ W. (true.) Soldier Key, N. 13° 53′ 51″ W., (true.)	.....	This beacon is placed not far from the seaward edge of the reefs, in 25° 26′ 45″ N. latitude, and 80° 07′ 21″ W. longitude.
Midchannel Buoy.....	Perpendicular stripes.	.....	3d class can.....	Ajax Reef beacon, "M," E. SE. Long Reef beacon, "N," NE. by E. ½ E. Pacific Reef beacon, "L," SE. ¾ S. North point of Sands Key, N. by W. ½ W.	15	In midchannel, at the point for changing course from S. ¾ W. to S. by W. ½ W.
Ajax Reef Beacon, "M."	Cylinder white, shaft and vane black.	.....	Beacon, letter "M," painted red, hoop-iron lattice-work; cylinder white, shaft and vane black.	Elliot's Key No. 2, S. 79° 35′ 43″ E., (true.) Elliot's Key No. 1, S. 26° 06′ 05″ E., (true.)	.....	This beacon is placed on the seaward edge of this reef, in latitude 25° 24′ 09″ north, longitude 80° 07′ 59″ west.
Cesar's Creek Bank Buoy.	Red	6	2d class nun.....	Ajax Reef beacon "M," E. NE. Pacific Reef beacon "L," E. by S. Turtle Reef beacon "K," S. ¼ W. Carysfort light-house, S. ¼ W.	8	This bank, off which this buoy is placed, extends out from the land in an easterly direction 2 miles. The midchannel line passes about ¼ of a mile to the eastward of this buoy.
Pacific Reef Beacon, "L."	Cylinder red, shaft and vane white.	.....	Beacon, letter "L," painted black, hoop-iron lattice-work; cylinder red, shaft and vane white.	Old Rhodes Key, S. 76° 29′ 51″ W., (true.) Elliott's Key No. 1, N. 15° 48′ 15″ W., (true.)	.....	This beacon is placed on Pacific Reef, 5¼ miles from Old Rhodes Key, and 7 1-10 nautical miles from Elliot's Key No. 1, in 25° 22′ 13″ north latitude, and 80° 08′ 30″ west longitude.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea at Cape Florida, to mark the Entrance to and Channel and Obstructions inside the Florida Reefs, from Jupiter Light-house to the Gulf at Dry Tortugas, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Old Rhodes Bank Buoy.	Red	8	2d class nun	Turtle Reef beacon "K," S. ¾ E. Carysfoot light-house, S. ¾ E. Pacific Reef beacon "L," NE. by E. ½ E.	9	This buoy is placed on the eastern end of Old Rhodes bank, ½ mile from the midchannel line, and ¼ mile to the southward of the point, to change course from S. by W. ½ W., to S SW. ¾ W.
Turtle Reef Beacon, "K."	Cylinder black, shaft and vane red.	.....	Beacon, letter "K" painted white, hoop-iron lattice-work; cylinder black, shaft and vane red.	Old Rhodes Key, S. 24° 40′ 47″ E., (true.) Cæsar's Creek bank, S. 6° 28′ 07″ W., (true.)	.....	This beacon is placed near the northern extremity of Turtle reef, and the southern side of the entrance to Turtle harbor; distant from Old Rhodes Key 4 4-10 nautical miles, and from Cæsar's creek 6 1-10 nautical miles. It is in 25° 16′ 52″ north latitude, and 80° 12′ 34″ west longitude.
Turtle Harbor Beacon.	Black, 36 feet high.	...	An iron shaft 6 inches in diameter, 36 feet in height, surmounted, at the height of 24 feet above the water, by two ellipses, at right angles, made of open lattice-work, 8 feet by 7 feet, and at the top by two circles of lattice-work 3 feet in diameter. The whole presents the appearance of two balls, respectively 8 feet and 3 feet in diameter, and the whole structure painted black.	Turtle Reef beacon, W. ¾ N., (magnetic.) Carysfort Reef light-house, S. SE., (magnetic.)	.....	This beacon is placed on Turtle Harbor shoals, inside of Turtle reef, and serves to mark the entrance to Turtle harbor.
Mid-channel Buoy, (off Key Largo.)	Perpendicular stripes.	.....	2d class can	Carysfort Reef light-house, SE. ¼ S. Old Rhodes Bank buoy, S. SW. ¾ W.	14	This buoy is placed in the midchannel line, running S. SW. ¾ W. from near Old Rhodes Bank buoy No. 8, red.
CARYSFORT REEF LIGHT-HOUSE.	Dark brown,	.....	Iron-pile light-house structure; the tower and keeper's dwelling painted brown; the dwelling is octagonal in shape; 1st order revolving light, every 30 seconds, at an elevation of 106 feet above the mean level of the sea.	.....	.....	This light-house is placed close to the seaward edge of the reef, in 25° 13′ 15″ north latitude, and 80° 12′ 45″ west longitude.
Key Largo Bank Buoy.	Perpendicular stripes.	.....	2d class can.....	Elbow beacon "J," SE. ¾ S., Grecian Shoals beacon "H," S. ¾ E.	10	This buoy is in midchannel, on the line S. SW. ¾ W. continued from the last midchannel buoy.
Elbow Reef Beacon, "J."	Cylinder white, shaft and vane black.	....	Beacon, letter "J," painted red; hoop-iron lattice work; cylinder white, shaft and vane black.	Grecian Shoals beacon "H," S. 60° 45′ 40″ W., (true.) Carysfort Reef light house, N. 20° 29′ 55″ E., (true.)	.....	This beacon is placed on the seaward edge of the reef, distant 2 4-10 nautical miles from the Grecian Shoal beacon, and 5 4-10 nautical miles from Carysfort light-house, in 25° 08′ 32″ north latitude, and 80° 15′ 40″ west longitude. This shoal is of small area, being about 1 mile long, with an average breadth of about ½ of a mile; it lies about 1½ mile outside of the general line of the reefs, detached, with deep water between it and the main reef of Grecian shoal.
Grecian Shoal Beacon, "H."	Cylinder red, shaft and vane white.	.....	Beacon, letter "H," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Sound Point, S. 15° 58′ 23″ E., (true.) Basin Bank, S. 21° 24′ 32″ W., (true.)	.....	This beacon is on the seaward edge of the Grecian shoals, distant 3 9-10 nautical miles from Sound Point, and 5 3-10 nautical miles from Basin Hill bank, in 25° 07′ 22″ north latitude, and 80° 17′ 57″ west longitude. This shoal is on the seaward extremity of the main trend of the reefs, with deep water outside of it to a little more than a mile to seaward of it, and, therefore, should not be approached by large vessels nearer than 2 miles.
Rocky Patch Buoy....	Black.....	5	2d class nun	Elbow beacon "J," E. ¾ N..... Grecian Shoal beacon "H," E. by S. ¾ S. French Reef beacon "G," S. ¼ W. Carysfort Reef light-house, NE. ¼ E.	11	This buoy is near an 11-feet spot and a patch of rocks, and must be left on the port hand going to the southward and westward.
French Reef Beacon, "G."	Cylinder black, shaft and vane red.	.....	Beacon, letter "G," painted red; hoop-iron lattice-work; cylinder black, shaft and vane red.	Lower Sound Point, S. 32° 33′ 53″ E., (true.) Point Willie, S. 16° 30′ 07″ E., (true.)	.....	This beacon is placed on French reef, 5 nautical miles from Lower Sound Point, and 6 2-10 nautical miles from Point Willie, in 25° 02′ 06″ north latitude, and 80° 21′ 05″ west longitude. It is close on the outer edge of the reef, with deep water close to it.
Four feet Shoal Buoy	Black	7	2d class can.....	Grecian Shoal beacon, "H," NE. by E. French Reef beacon, "G," SE. ¼ E. Pickles Reef beacon, "F," S. ¾ W.	7	This buoy is placed near a 7-feet spot, and to the westward of the shoal, with 4 and 5 feet water over it. It must be left on the port hand.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea at Cape Florida, to mark the entrance to and Channel and Obstructions inside the Florida Reefs, from Jupiter Light-house to the Gulf at Dry Tortugas, Florida—Continued.

Name of station or beauty of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Pickles Reef Beacon, "F."	Cylinder white, shaft and vane black.	.....	Beacon, letter "F," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Point Charles, S. 16° 57′ 43″ E., (true.) Lower Sound Point, S. 6° 34′ 30″ W., (true.)	.....	This beacon is placed on the seaward edge of Pickles reef, 5 2-5 nautical miles from Point Charles, and 7 nautical miles from Lower Sound Point, in 24° 59′ 22″ north latitude, and 80° 24′ 55″ west longitude.
West end of Triangle Buoy.	Black..	9	2d class nun.....	Pickles Reef beacon, "F," E. by S. ¾ S. Conch Reef beacon, "E," S. ¼ E. Tavernier Key, W. SW. ¾ W. Rodriguez Key, N. ¼ E.	17	This buoy is close to a spot at the western end of the Triangle shoals, with 5 feet water over it, and must be left to port. It is 2¼ miles to the eastward of Tavernier Key, and nearly 2¼ miles to the southward of Rodriguez Key.
Conch Reef Beacon, "E."	Cylinder red, shaft and vane white.	.....	Beacon, letter "E," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Rodriguez Key, S. 40° 30′ W., (magnetic.) Tavernier Key, S. 43° 30′ E., (magnetic.)	.....	This beacon is placed on Conch reef, in 24° 56′ 36″ north latitude, and 80° 27′ 50″ west longitude. It is on the seaward edge of the reef, with bold water close to it.
Crocker's Reef Beacon, "D."	Cylinder black, shaft and vane red.	.....	Beacon, letter "D," painted white; hoop-iron lattice-work; cylinder black, shaft and vane red.	Snake Creek Point, S. 39° 15′ E., (magnetic.)	.....	This beacon is placed on Crocker's reef, about 4 miles from Snake Creek Point, in 24° 49′ 08″ north latitude, and 80° 38′ 08″ west longitude.
Hen and Chickens Buoy.	Red	10	2d class nun.....	Crocker's Reef beacon, "D," SE. ¼ E. Alligator Reef beacon, "C," SW. ¼ S. Conch Reef beacon, "E," E. by N. ¾ N. North point of Mattacombe Key, W. ¾ N.	16	This buoy is placed on the southern side, and near the shoalest part of the Hen and Chickens shoal, with deeper water close to it, and also to the southward. There is a channel with 14 feet water through it, between the Hen and Chickens and rocks, about half a mile to the northward.
Alligator Reef Beacon, "C." (To be replaced by an Iron Screw-pile Light-house.)	Cylinder white, shaft and vane black.	.....	Beacon, letter "C," painted red; hoop-iron lattice-work; cylinder white, shaft and vane black.	Indian Key, S. 66° 30′ E., (magnetic,) distant 5 miles.	.....	This beacon is placed on Alligator reef, in 24° 49′ 08″ north latitude, and 80° 38′ 08″ west longitude. This reef is at the seaward extremity (southward and westward) of the banks and shoals making out from Indian Key, Tea Table Key, and upper Mattacombe, and where they terminate.
Tennessee Reef Beacon.	.....	.....	.....	.....	.....	Building.
Alligator Shoal Buoy.	Black.....	11	2d class nun	Crocker's Reef beacon, "D," NE. by E. ¼ E. Alligator Reef beacon, "C," SE. by E. ¼ E. Centre of Indian Key, W., NW. ¼ W.	10	This buoy is near the western extremity of the shoal.
Long Key Shoal Buoy.	Red	12	2d class nun	East end of Long Key, N. ¾ E. Conch Keys, W. ¼ S. Indian Key, NE.	12	This buoy lies off the south point of Long Key, distant 1¼ mile.
Middle Channel Buoy.....	Perpendicular stripes.	.....	2d class nun.....	Coffin's Patches beacon, SW. ¼ S. East point of Duck Key, NW. ¼ W. Southwest point of Long Key, N. NE. ¼ E.	21	This buoy is abreast of Conch Keys.
East Turtle Shoal Buoy.	Red and black horizontal stripes.	.....	2d class can	Coffin's Patches beacon, SW. ¾ S. Southeast point of Duck Key, N. by E. ¾ E. West end of Grassy Key, NW. ¾ W.	18	This buoy lies just to the westward of the 5¼-feet spot on East Turtle shoal. It may be passed on either hand.
Turtle Shoal Buoy ...	Red and black horizontal stripes.	.....	2d class can	Coffin's Patches beacon, S. SE. Dry Bank light-house, SW. by W.	16	This buoy lies a little to the westward of the 9-feet shoal spot on Turtle shoal. It may be passed on either hand.
Coffin's Patches Beacon.	Black	.....	An iron shaft, 6 inches in diameter, 10 feet high, with two ellipses at right angles to each other, 25 feet above the water. These ellipses are made of open lattice-work, 8 feet by 5 feet, presenting the appearance of a ball. At 33 feet above the water there is an open lattice cross, with arms 9 inches broad, extending 3 feet from the shaft. On the top there is a ball 18 inches in diameter; and the entire structure painted black.	Dry Bank light-house, S. 67 30′ W., (true.)	.....	This beacon is placed on Coffin's Patches, near the seaward edge of the reef, and bears about south from Duck Key.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea at Cape Florida, to mark the entrance to and Channel and Obstructions inside the Florida Reefs, from Jupiter Light-house to the Gulf at Dry Tortugas, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Seven-feet Shoal Buoy.	Red	14	2d class nun	Dry Bank light-house, SW. Coffin's Patches beacon, E. ¼ S.	18	This buoy marks a shoal with 14, 11, and 7 feet of water over it. There is a 15-feet channel to the northward of it, but the best water and clearest ground lies to the southward. It should be left on the starboard hand.
Washerwoman (No. 1) Shoal Buoy.	Red and black horizontal stripes.		2d class can	Dry Bank light-house, SW. ¾ S. Coffin's Patches beacon, W. by S. ¼ S.	12	This buoy is placed near the eastern end of the Washerwoman shoal, which has only 3 feet of water on it.
Delta Shoal Buoy. (inside.)	Black	13	2d class nun	Dry Bank light-house, SW. ¾ S. Coffin's Patches beacon, NE. by E. ¾ E. Southwest end of Night's Key, N. NW. ¼ W.	15	Marks the northwest end of the Delta shoal. Vessels passing inside, between the light-house and the shoal, will leave the buoy on the starboard hand. It is one mile from the light-house.
Dry Bank Light-house. (Sombrero Key.)	Dark		Iron-pile structure, off Dry Bank, Sombrero Key, and near to Delta shoal. An open frame work of iron, and *circular* dwelling for the keeper. Height of tower 144 feet above water. First order fixed light.			This light-house is placed on Sombrero shoals, off Dry Bank, Sombrero Key, about 1¼ mile to the westward of Delta shoal, and 10 miles to the westward of the centre of Coffin's Patches, in 24° 37′ 36″ N. latitude, and 81° 06′ 43″ W. longitude.
Pigeon Key Bank Buoy.	Perpendicular stripes.		2d class can	Dry Bank light-house, SE. by E. Pigeon Key, N. by W. Washerwoman buoy, E by N. ¼ N.	26	In midchannel, off Pigeon Key and the bank making out from it.
Bahia Honda Key Buoy.	Perpendicular stripes.		2d class can	Dry Bank light-house, E. ¼ N East end of Bahia Honda Key, N. by E. ¾ E.	26	Is 1¼ mile from the western end of Bahia Honda Key and entrance.
Looe Key Beacon						Building.
Loggerhead Key Bank Buoy.	Red	16	2d class nun	American Shoal beacon, "B," SW. ¾ S. Southeast point Loggerhead Key, SE. ¾ E.	18	This buoy lies off a rocky patch, 1¼ mile to the southward and eastward of the southeast point of Loggerhead Key.
American Shoal Beacon, "B."	Cylinder red, shaft and vane white.		Beacon, letter "B," painted black; hoop-iron lattice-work; cylinder red, shaft and vane white.	Loggerhead Key, N. 22° 16′ .45″ E., (true.) Eastern Sambo beacon, "A," S. 76° 35′ 59″ W., (true.)		This beacon is placed on the seaward edge of the American shoal, about 6 nautical miles from Loggerhead Key and 8 nautical miles from the Eastern Sambo beacon, "A," in 24° 31′ 24″ N. latitude, and 81° 31′ 16″ W. longitude.
Four-feet Shoal Buoy.	Black	15	2d class nun	American Shoal beacon, "B," SE. ¾ E. Eastern Sambo beacon, "A," SW. ¼ W.	23	This buoy marks the northern side of a shoal lying one mile to the eastward of the eastern end of Washerwoman shoal, No. 2.
Washerwoman Shoal (No. 2) Buoy.	Black	17	2d class nun	Eastern Sambo beacon, "A," SW. ½ S. American Shoal beacon, "B," E. SE.	18	This buoy is placed at the northeastern end of the Washerwoman shoal, which lies 4 miles to the northward and westward of the American Shoal beacon, and near a rocky patch.
Maryland Shoal Beacon, "A." 2.						Building.
Eleven-feet Shoal Buoy.	Red and black horizontal stripes.		2d class nun	Eastern Sambo beacon, "A," SW by S. ½ S. American Shoal beacon, "B," E. by S. ¼ S.	21	This buoy lies near a rocky patch with 11 feet of water over it, and off Pelican Key. From abreast of this buoy a W. by S. ¼ S. course will take a vessel up to Whitehead Spit buoy, (Red No. 6,) Key West harbor.
Eastern Sambo Beacon, "A."	Cylinder black, shaft and vane red.		Beacon, letter "A," painted white; hoop-iron lattice-work; cylinder black, shaft and vane red.	Geiger's house, N. 3° 29′ 21″ E., (true.) South Saddle Hills, N. 13 13′ 01″ W., (true.)		This beacon is placed on the Eastern Sambo, near the seaward side, with Speculator's shoal one mile to the eastward, Pelican shoal 2 miles to the eastward, and the Western Sambo 3 miles to the westward. In 24° 29′ 32″ N. latitude and 81° 39′ 55″ W. longitude. After passing this beacon, consult the Key West Harbor and Entrance Buoy List.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to mark the Approaches to and Channels leading into Key West Harbor, Florida.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Western Sambo Beacon.						Building.
East Channel Shoal Buoy.	Red	2	1st class nun	Key West light-house, NW. ¾ N. Sand Key light-house, W. by S ¼ S.	24	This buoy is placed just outside to the westward of the 16-feet spot of the shoal forming the eastern side of the east channel leading into Key West, and must be left on the starboard hand. When abreast of the buoy, and about 500 yards to the westward of it, and the Key West light-house bearing NW. by N. a little northerly, a northwest (a little westerly) course will lead clear of all obstructions, and in not less than 5 fathoms water up to the Whitehead Spit buoy, red, No. 6. This channel, between two 16-feet spots, is only about 350 yards wide. All the *Main Channel buoys* must be left to port, except the red, No. 6, which must be passed and left on the starboard hand. Steamers only, and drawing less than 14 feet water, should undertake to run this channel.

Through Point of Reefs Channel.

Point of Reefs Buoy.	Red	4	1st class nun	Sand Key light-house, W. by S. ¼ S. Key West light-house, N. by W. ¾ W.	24	This buoy is placed just to the westward of the 18-feet spot, and on the eastern side of the entrance by that passage. Bring Key West light-house to bear N. by W. ¼ W. abreast of and between 400 and 500 yards to the westward of the buoy, and a N by W. ¼ W. course will lead clear of all shoals above the Triangles and the *Main Channel buoys*, when steer more to the westward, to pass Red buoy No 6, Whitehead spit.

Through Main Channel.

Main Channel Entrance Buoy.	Perpendicular stripes.		1st class nun	Sand Key light-house, W. by S. ¾ S. Key West light-house, N. ¼ W.	27	This buoy is placed in midchannel of the main ship channel leading into Key West harbor. It should be left on either hand close-to. After passing this buoy, steer N. ¼ W. for Key West light-house, little open on the port bow, which will take you between the East and West Triangles; passing the Triangles a cable's length, haul up NW. by N. until you open Fleming's Key with the town; then steer for the town.
Western Head Buoy.	Black	1	2d class can	Sand Key light-house, SW. ¼ W. Key West light-house, N Northwest Passage light-house, NW. ¼ N.	21	This buoy is close to and to the eastward of an 18-feet spot, and must be left on the port hand.
Mississippi Shoal Buoy.	Red	2	2d class nun	Sand Key light-house, SW. ¼ W. Key West light-house, N. ¼ W. Northwest Passage light-house, NW. ¼ N.	30	This buoy is close to and to the westward of a 17-feet spot, and must be left on the starboard hand.
Western Triangle Buoy.	Black	3	2d class can	Sand Key light-house, SW. Key West light-house, N. Northwest Passage light-house, NW. ¼ N.	30	This buoy is close to a 16-feet spot, and must be left on the port hand.
Eastern Triangle Buoy.	Red	4	2d class nun	Sand Key light-house, SW. Key West light-house, N. ¼ W. Northwest Passage light-house, NW.	30	This buoy is near a 17-feet spot, and nearly opposite to the West Triangle buoy. Pass between these two buoys, black to port, red to starboard.
Whitehead Spit Buoy.	Red	6	1st class nun	Sand Key light-house, SW. by S. ¼ S. Key West light-house, NE. ¾ N. Northwest Passage light-house, NW. ¼ W.	21	This buoy marks the southwest extremity of Whitehead Spit, and must be left on the starboard hand.
Key West Lighthouse	White		Fixed light.			Tower in the town.
South end of Middle Ground Buoy.	Black	9	3d class can	Key West light-house, E. ¼ N. Northwest Passage light-house, NW. ¼ W. Sand Key light-house, SW. by S. ¼ S.	18	This buoy is near an 18-feet spot, with main channel to the eastward of it.
Inner Middle Ground Buoy.	Black	11	3d class can	Northwest Passage light-house, NW. by W. Key West light-house, SE. by E. ¼ E. Sand Key light-house, S. SW.	18	This buoy marks the northwest side of the harbor at the 18-feet corner.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to mark the Main Channel into Key West Harbor, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
South end of Frankfort Bank Buoy.	Black	13	3d class can	Northwest Passage light-house, NW. by W. ½ W. Key West light-house, SE. by E. ¾ E. Sand Key light-house, S. SW. ½ W.	18	This buoy marks the southern end of Frankfort Bank, at the 18-feet corner.

Entrance by West Channel into Key West Harbor.

Western Dry Rocks Beacon.						Building.
West Channel Shoal Buoy.	Red	2	1st class can	Sand Key light-house, E. Key West light-house, NE. ¼ E. Northwest Passage light-house, N. ¾ E.	21	This buoy is near an 18-feet spot due west from Sand Key light-house, and should be left on the starboard hand; also it may be passed to the eastward by giving it a berth to clear the 18-feet spot.
West side of Channel Buoy.	Black	1	1st class nun	Sand Key light-house, E. by S. Key West light-house, NE. by E. Northwest Passage light-house N. by E. ½ E.	21	This buoy is to the eastward of a shoal, with 14 feet water over it, which extends in a northwesterly direction ¾ mile.
Twelve-feet Shoal Buoy.	Black	3	3d class nun	Sand Key light-house, SE. by E. ¾ E. Key West light-house, NE. ¼ E. Northwest Passage light-house, N. ¾ E.	27	This buoy is near an isolated 18-feet spot.
Sixteen-feet Shoal Buoy.	Red	4	3d class can	Sand Key light-house, SE. by E. ¼ E. Key West light-house, NE. ¼ E. Northwest Passage light-house, N. ½ E.	33	This buoy is near a 16-feet spot, and should be left on the starboard hand.
Middle Ground Beacon.						Building; inside of outer reefs and Sand Key light-house.
Inner Sixteen-feet Shoal Buoy.	Red	6	2d class can	Sand Key light-house, S. by E. ¼ E. Key West light-house, NE. ¼ E Northwest Passage light-house, N. by W.	42	This buoy is near to a 16-feet shoal, to the westward of the Middle Ground.
West Crawfish Key Bank Buoy.	Black	5	2d class nun	Sand Key light-house, S Key West light-house, NE. by E. Northwest Passage light-house, N. by W. ¾ W.	21	This buoy marks the southern extremity of the flat making out from West Crawfish key.
Eighteen-feet Shoal Buoy.	Red	8	2d class can	Sand Key light-house, SW. by S. ¾ S. Key West light-house, NE. ¾ N. Northwest Passage light-house, NW. by N. ¼ N.	36	This buoy is near an 18-feet spot, 2¼ miles to the northward of the Eastern Dry Rocks.
Whitehead Spit Buoy, ("Main Ship Channel.")	Red	6	1st class nun	Sand Key light-house, SW. by S. ¼ S. Key West light-house, NE. ¾ N. Northwest Passage light-house, NW. ¼ W.	21	This buoy marks the southwest extremity of Whitehead spit, and must be left on the starboard hand.
Kingfish Shoal Buoy.	Black	7	3d class nun	Sand Key light-house, S. by W. ¾ W. Key West light-house, E. ½ S. Northwest Passage light-house, NW. ¼ W.	18	This buoy marks the eastern edge of the Kingfish shoal, and the west side of the channel leading to the Gulf by the northwest passage. Going to the Key West anchorage, it must be left on the port hand, and the same going through the northwest passage to the Gulf.
South end of Middle Ground Buoy.	Black	9	3d class can	Key West light-house, E. ¾ N. Northwest Passage light-house, NW. ¾ W. Sand Key light-house, SW. by S. ¾ S.	18	This buoy is near an 18-feet spot, with main channel to the eastward of it.
Inner Middle Ground Buoy.	Black	11	3d class can	Northwest Passage light-house, NW. by W. Key West light-house, SE. by E. ¼ E. Sand Key light-house, S. SW.	18	This buoy marks the northwest side of the ledge at the 18-feet corner.
South end of Frankfort Bank Buoy	Black	13	3d class can	Northwest Passage light-house, NW. by W. ½ W. Key West light-house, SE. by E. ¾ E. Sand Key light-house, S. SW. ½ W.	18	This buoy marks the southern end of the Frankfort Bank at the 18-feet corner.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to mark the Northwest Channel into Key West Harbor from the Gulf.

Name of station or locality of aid.	Color of aid	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Outer Buoy, (entrance.)	Perpendicular stripes.	.....	2d class can.....	Northwest Passage lighthouse, S. by W. ¾ W. Key West light-house, SE.	24	This buoy will be kept in midchannel, to lead to the Northwest Passage bar and entrance.
Outer Bar Buoy.....	Perpendicular stripes.	.....	3d class can	Northwest Passage lighthouse, S. by W. ¾ W. Key West light-house, SE. ¼ E.	12	This buoy is ... the outer bar, and should be passed close-to on either side.
Turning Point Buoy..	Red	2	2d class nun.....	Northwest Passage lighthouse, S. by W. ¾ W. Key West light-house, SE. ¼ E.	12	This buoy marks the turning-point in the channel, and should be left on the starboard hand, *but close to.*
NORTHWEST CHANNEL LIGHT-HOUSE.	Dark	.....	Iron screw-pile light-house, placed on the flats; to mark the entrance and channel of the bar leading to the Northwest Passage.	.....	4	Foundation dark, dwelling and lantern white; height above sea level 40 feet; fixed white light of the 5th order, in 24° 37′ 04″ north latitude, and 81° 54′ 01″ west longitude.
Midchannel Buoy.....	Perpendicular stripes.	.....	3d class nun.....	Northwest Passage lighthouse, W. ¼ N. Sand Key light-house, S. ¼ E. Key West light-house, S. SE. ¼ E.	22	In midchannel, midway between Turning Point buoy, (red, No. 2,) and Middle Ground buoy, (black, No. 1.)
Middle Ground Buoy, (west end.)	Black.....	1	3d class can	Northwest Passage lighthouse, W. by N. ¾ N. Key West light-house, SE. ¼ E.	12	This buoy is near the northern and western end of the Middle Ground, with the best channel to the starboard of it.
Middle Ground (Nine-feet Shoal) Buoy.	Black.....	3	3d class can	Northwest Passage lighthouse, NW. by W. ¼ W. Key West light-house, SE. ¼ E.	12	This buoy is placed a little to the northward and eastward of a 9-feet spot, and must be left on the port hand.
Midchannel Buoy. ...	Perpendicular stripes.	.....	3d class nun	Key West light-house, SE. by E. ¾ E. Sand Key light-house, S. by W. ¾ W.	27	This buoy is in midchannel, between Middle Ground and Crawfish Key shoal.
Kingfish Shoal Buoy.	Black	7	3d class nun.....	Sand Key light-house, S. by W. ¾ W. Key West light-house, E. ¼ S. Northwest Passage lighthouse, NW. ¾ W.	18	This buoy marks the eastern edge of Kingfish shoal, and the west side of the channel, (leading to the Gulf,) and from the Gulf by the Northwest channel.
South end of Middle Ground Buoy.	Black	9	3d class can	Key West light-house, E. ¾ N. Northwest Passage lighthouse, NW. ¾ W. Sand Key light-house, SW. by S. ¾ S.	18	This buoy is near an 18-feet spot with main channel to the eastward of it.
East Middle Ground Buoy.	Black..	11	3d class can	Northwest Passage lighthouse, NW. by W. Key West light-house, SE. by E. ¼ E. Sand Key light-house, S. SW.	18	This buoy marks the northwest side of the harbor at the 18-feet corner.
South end of Frankfort Bank Buoy.	Black.....	13	3d class can	Northwest Passage lighthouse, NW. by W. ¼ W. Key West light-house, SE. by E. ¾ E. Sand Key light-house, S. SW. ¼ W.	18	This buoy marks the southern end of the Frankfort Bank, at the 18-feet corner.

Entering from the Gulf, to mark the entrance by the North Channel into Key West Harbor.

Entrance Buoy, (midchannel.)	Perpendicular stripes.	.....	1st class can.....	Sand Key light-house, E. SE.. Key West light-house, NE. by E. ¾ E. Northwest Passage lighthouse, N. by E. ¾ E.	45	Pass this buoy close-to on either hand, and steer E. by N. ¼ N. until the Middle Ground buoy is passed, and leaving all buoys of the West channel on the starboard hand, until up with West Crawfish Key buoy, (No. 5, black,) which leave on the port hand, and then follow the inner harbor list. Having passed West Channel buoy, (No. 8,) a NE. by N. ¼ N. course, and clearing Whitehead Spit buoy (No. 6, red) of the main channel, will lead into the inner harbor, between the buoys, red and black,) according to the directions.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to mark the entrance from the eastward into Dry Tortugas Harbor, Florida.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Southeast Point of Shoals making out from Garden and Bird Key's Buoy.	Black	1	2d class can	Dry Tortugas light house, NW. by W. Dry Tortugas Harbor Lighthouse, N. ¾ W.	18	This buoy marks the southeast point of the shoal making out from the fort, with deep water close to it.
East side of Entrance Buoy.	Red	2	2d class nun.....	Dry Tortugas Harbor lighthouse, W. ¼ N. Fort Jefferson. (sea buoy.) SW. ¾ W.	18	This buoy marks the southern point of the shoals making out from East and Sand Keys, and the east side of the channel.
DRY TORTUGAS HARBOR LIGHT-HOUSE. (inside of Fort Jefferson.)	White		White tower, inside of Fort Jefferson. Garden Key, Dry Tortugas, 70 feet above the level of the sea; fixed white light of the 4th order.	.....	.....	This light-house is in latitude 24° 37′ 47″ north, and in longitude 82° 52′ 53″ west.
Garden Key Shoal Buoy.	Black	3	3d class can	Dry Tortugas light-house, W. by S. Dry Tortugas Harbor lighthouse, SW. ¼ S.	12	This buoy marks the northeast point of Garden Key shoal.
Garden Key Shoal Buoy.	Black.....	5	3d class can	Dry Tortugas light-house, W. ¾ S. Dry Tortugas Harbor lighthouse, S. SE. ¾ E.	12	This buoy marks the northern point of Garden Key shoal. *Sailing Directions.* Get Dry Tortugas Harbor light-house to bear W. by N., and run for it until up with red buoy No. 2, which pass on the starboard hand; then haul up NW. by W. for buoy No. 3, (black,) leaving it on the port hand; then steer W. ¾ S. for buoy No. 5, (black,) which also leave on the port hand. Large vessels should not attempt to run into this harbor without a pilot, as the channel is narrow, and foul ground inside of buoy No. 3, (black.)

To mark the Entrance into Dry Tortugas Harbor from the West or Southwest.

Fort Jefferson (Sea) Buoy.	Red	8	1st class nun.....	Dry Tortugas light house, N. NW. Dry Tortugas Harbor lighthouse, N. NE. ¼ E.	18	This buoy marks the southern extremity of the shoal making out from Fort Jefferson, and the eastern side of the passage into the harbor, between Loggerhead Key and the fort.
Midchannel Buoy.....	Perpendicular stripes.	....	3d class nun.....	Dry Tortugas Harbor lighthouse, E. ¾ N. Dry Tortugas light house, E. SE.	15	An 8-feet shoal lies not far off to the southward and eastward.
DRY TORTUGAS LIGHT-HOUSE. Loggerhead Key.)	White and black.	...	Tower, 150 feet high; lower half painted WHITE, and the upper BLACK. Keeper's dwelling placed a little to the southward of the tower. Fixed white light of the 1st order.	This light-house tower is on Loggerhead Key, the westernmost of the Tortugas group. It is nearly one mile long, northeast and southwest, and 700 feet broad, bordered all around by bushes.	.....	This light-house is in latitude 24° 38′ 12″ north, and in longitude 82° 55′ 15″ west.
Dry Tortugas *Harbor* Light house, (inside Fort Jefferson.)	White.		White tower inside of Fort Jefferson, Garden Key, Dry Tortugas. Fixed white light 4th order, 70 feet above the level of the sea.	....	.....	This light-house is in latitude 24° 37′ 47″ north, and longitude 82° 52′ 53″ west.
Garden Key Shoal Buoy.	Black.....	5	3d class can.....	Dry Tortugas light-house, W. ¾ S. Dry Tortugas Harbor lighthouse, S. SE. ¾ E.	12	This buoy marks the northern point of Garden Key shoal.

To mark the Entrance to Dry Tortugas Harbor from the Northwest.

Outer (Entrance) Buoy.	Perpendicular stripes.	.....	2d class nun	Dry Tortugas light-house, S. by W. ¼ W. Dry Tortugas Harbor lighthouse, S. by E. ¼ E.	19	This buoy marks the Midchannel Entrance and between a 15 and 16-feet shoal on either side.
Middle Ground Buoy.	Red and black horizontal stripes.	.....	3d class nun	Dry Tortugas light house, SW. by W. ¾ W. Dry Tortugas Harbor light house, S. ¼ E.	12	This buoy is on the north side of a shoal with 11 feet of water over it, and may be passed, not to close, on either hand.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to mark the Entrance to Charlotte's Harbor, Florida.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Outer (Entrance) Buoy.	Perpendicular stripes.	.....	2d class nun.....	South point of Gasparilla Island. NE. ¼ E. North point of Lacosta Island, NE. by E. ¼ E.	23	This buoy is in midchannel between the shoals, and breakers on either side. A NE. ¼ E. course from the buoy for 1⅞ mile, and then NE. by E. ¾ E., will take you inside to a safe anchorage in 23 feet of water, under Gasparilla Island Point, to the northward of the entrance.

To mark the Caloosa Entrance to San Carlos Bay, Florida.

Outer (Entrance) Buoy.	Black	1	2d class can.....	Bowditch Point, N. ¼ W..... Sinabel Island Point, NW. ¼ W. Punta Rosa, NW. by N.	16	This buoy is placed three-fourths of a mile outside of the 12-feet soundings curve, and should be left on the port hand in going in.
Inner Buoy.....	Red.....	2	3d class nun.....	Punta Rosa, NW..... Outer buoy, S. SE. ¼ E.	10	This buoy marks the turning point for Punta Rosa and Caloosa entrance.
Stake and Board.....	Red	2	Stake and board, painted red, and numbered.	Inner Buoy SE. ..... Sinabel Island Point, SW. ¼ S.	6	This stake is on the southeast point of Punta Rosa Bank.
Stake and Cross.....	Red	4	Stake and cross, painted red, and numbered.	Outer stake, SE. by E..... Punta Rosa, NW. ¾ N.	3	This stake is on the southwest edge of Punta Rosa Bank.
Stake and Triangle...	Red	6	Stake and triangle, painted red, and numbered.	Sinabel Island Point, S. ¼ E... Inside of Bowditch Point, E. SE.	6	This stake is on the edge of the bank to the southward of Punta Rosa.

To mark the Entrance to and up Tampa Bay, Florida.

Outer (Entrance) Buoy.	Perpendicular stripes.	.....	2d class can.	Egmont light-house, SE. by E. ¼ E. Northwest point of Palm Key, SE. ¼ S.	24	This buoy is placed in midchannel line for entering between Egmont and Mullet Keys. Bring Egmont light-house to bear SE. by E. ¼ E. and run in for this buoy. When up with it, steer E. by S. ¾ S. for Middle buoy, which pass close-to, on either hand. The water is bold close to Egmont light-house, and there is a shoal with only five feet water over it making out from the south end of Mullet Key, to the westward. The lead will guide you after getting inside. Good anchorage will be found inside of Mullet Key, in from 3¼ to 3½ fathoms. If bound up, be guided by the buoys on either side of the main channel.
Middle Buoy, (Entrance.)	Perpendicular stripes.	.....	2d class nun.....	Egmont light-house, SE. by E. ¾ E. Northwest point of Palm Key, SE. by S. ¼ S.	30	
Egmont Shoal Buoy..	Red	2	3d class nun.....	Egmont light-house, E. by S. ¼ S Southwest point of Egmont Key, S. by E. ¼ E.	18	This buoy marks the northern and western end of the shoal making out to the westward from the northward of Egmont Key.
Egmont Light-house..	White.....	.....	Tower of brick, painted white, 95 feet high. Fixed white light, of the 4th order.	.....	.....	On Egmont Key, at the entrance to Tampa bay. The dwelling is a two-story brick building, white-washed, in 27° 35′ 34″ N. latitude, and 82° 45′ 15″ W. longitude.
Turning Point Buoy..	Red	4	3d class nun.....	Egmont light-house, W. by N. ¾ N. North end of Palm Key, SW. by W.	14½	After passing inside of Egmont and Mullet Keys, on the E. by S. ¼ S. course until in four fathoms water, and with the Buoy No. 4 right ahead, distant 2 miles, steer E. NE. until Buoy No. 1, black, is passed on the port hand.
Bird Key Bank Buoy.	Black.....	1	3d class can.....	Egmont light-house, W. by S. ¼ S. Piney Point, N. by W.	10	When this buoy bears northwest and in 4 fathoms water, steer N. NE. ¾ E. until to the northward of Piney Point and Red Buoy No. 6.
Piney Point Buoy.....	Black.....	3	3d class can.....	Egmont light-house, SW. by W. ¼ W. Piney Point, NW. by W. ¾ W.	11	Marks the edge of Piney Point shoal, at 10 feet water.
Lower end of Mangrove Point Buoy.	Red	6	3d class nun.....	Piney Point, W. by N. ¼ N ..... Mangrove Point, E. by N. ¼ N.	15	Off the 10-feet spot on the lower end of Mangrove Point shoal.
Upper edge of Mangrove Point Bank Buoy.	Red	8	3d class nun.....	Gadsden's Point, N. NE. ¼ E... Passage Point, N. NW.	16	This buoy marks a 12-feet spot on the upper edge of Mangrove Point shoals.
South end of Gadsden's Point Bank Buoy.	Black.....	5	3d class can.....	Gadsden's Point, N. NE..... Mangrove Point, S. ¼ W.	12	This buoy marks a 10-feet shoal south of Gadsden's Point.
Gadsden's Point Buoy.	Black.....	7	3d class can.....	Gadsden's Point, NW. ¼ N. ... Mangrove Point, S. SW.	10	This buoy marks a 10-feet shoal off Gadsden's Point.
Head of the Bay Buoy.	Black.....	9	3d class can.....	Ballast Point, NE. by E. ¼ E... Fort Brooke, N. by E. ¼ E.	10	This buoy is placed on the port side of midchannel line, and near the head of the bay.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from Tampa Bay, to mark the Entrance to and up Manatee River, Florida.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Bar Buoy, (Entrance.)	Perpendicular stripes.	.....	2d class nun.....	Egmont Key light-house, NW. ¼ N. North point of Palm Key, W. ¾ N.	9	After passing inside of Egmont Key light-house, steer SE. by S. until you make this buoy, which pass close-to on either hand, and steer E. ½ S. for Buoy No. 3, (black,) leaving stake with triangle on it and numbered "1" (black) on the port hand.
Stake and Triangle...	Black.....	1	Stake, with triangle on it painted black, and numbered.	Egmont light house, NW..... North end of Palm Key, W. by N.	6	This stake is put in 6 feet of water, on the point of a bank making out from Manatee Point, and must be left on the port hand.
Sand Bar Buoy.....	Black.....	3	3d class can.....	Sneed's house, E. ¼ S..... Sprague's Point, W. by S.	7½	Leave this buoy on the port hand, distant about 50 yards, and steer for Sneed's Point, and you will make Buoy No. 2, (red,) which pass close-to on the starboard hand.
Shaw's Point Buoy.....	Red	2	3d class nun.....	Sneed's Point, E. ¼ S..... Shaw's Point, S. by E. ½ E.	8	From this buoy steer SE. by E. for Buoy No. 5, (black,) which pass close-to on the port hand.
Sneed's Point Buoy...	Black.....	5	3d class can.....	Sneed's house, NW. by W. ¼ W. Bull Pen Point. E. by S. ¼ S. Shaw's Point, W. by N.	9	Steer from this buoy SE. ½ E. for Buoy No. 4, (red,) leaving it on the starboard hand.
Sword-fish Point Buoy	Red	4	3d class nun.....	Sword-fish Point, S. by W..... Bull Pen Point, E. Sneed's house, NW. ¼ N.	8	After passing this buoy, a good anchorage can be found, in 10 feet of water, off Bull Pen Point.

Entering from sea, to mark the Entrance to and Channel into Cedar Keys, Florida.

Spit Buoy.....	Red	2	1st class nun	Sea-horse Key Light-house, NE. by N.	27	This buoy is placed about one-half of a mile to the southward and westward of the 14-feet line of soundings off Sea-horse reef, which extends out from Sea-horse Key in a southwesterly direction 10 miles, with from 10 to 14 feet of water at its outer end. Being in not less than four fathoms water, bring Sea-horse Key light-house to bear N. by E. ½ E., and run for it until up with Black buoy, No. 1, (passing the four midchannel buoys on either side close-to,) which leave on the port hand, and steer NE. ½ N. until up with Stake No. 2, (red,) with cross on it, which leave on the starboard hand, and steer N. ¼ W. for Stake No. 4, (red,) with triangle on it; between these stakes good anchorage can be found in from 10 to 13 feet of water. Above this the channel is very narrow and crooked, and strangers should not attempt to run it without a pilot.
Outer Buoy, (Entrance.)	Perpendicular stripes.	.....	2d class can.....	Sea-horse Reef beacon, N. ¾ E. Sea-horse Key light-house, N. by E. ¼ E.	30	Pass this buoy on either side.
Inner Buoy, (Entrance.)	Perpendicular stripes.	.....	2d class nun.....	Sea-horse Reef beacon, NW. by N. ½ N. Sea-horse Key light-house, N. by E. ¼ E.	22	In midchannel, to be passed close to; but the best water is to starboard of it.
Sea-horse Reef Beacon.	Black.....	.....	An iron screw-pile beacon, three piles, from which rises an open frame-work extending 38 feet above the water, on the top of which is a tripod surmounted by a ball 8 feet in diameter; the entire height being 50 feet, and painted black.	Sea-horse Key light-house, NE. by N. ½ N.	.....	This beacon is near the centre of Sea-horse reef; 6¾ nautical miles from Sea-horse Key light-house, which extends out in a southwesterly direction 10 miles, with from 10 to 14 feet of water on it at its outer end.
Midchannel Buoy.....	Perpendicular stripes.	.....	2d class can	Sea-horse Reef beacon, SW. by W. ¾ W. Sea-horse Key light-house, N. by E. ¼ E.	20	Placed in midchannel, and may be passed close-to on either side.
Midchannel Buoy.....	Perpendicular stripes.	.....	2d class nun.....	Sea-horse Key light-house, N. by E. ¼ E. Sea-horse Reef beacon, SW. ¾ W.	19	Placed in midchannel, and may be passed on either hand close-to.
Black Buoy No. 1.....	Black.....	1	2d class can	Sea-horse Key light-house, N. by E. ¼ E. East end of Snake Key, NE. by E. ¾ E.	9	This buoy marks the bar and change of course from N. by E. ¼ E. to NE. ¼ N. It must be left on the port hand.
Stake and Cross.....	Black.....	3	Stake, with cross on it, painted black, and numbered.	East end of Snake Key, E. by N. ¾ N. Sea-horse Key light-house, N. by E. ¼ E.	4	Placed on the edge of the west bank making out from Sea-horse Key.

Towers, beacons, buoys, spindles, and all other aids to navigation, arranged in regular order as they are passed by vessels entering from sea, to mark the Entrance to and Channel into Cedar Keys, Florida—Continued.

Name of station or locality of aid.	Color of aid.	Number, if a buoy.	Description of mark or aid.	Bearings of prominent objects from buoy, spindle, or beacon, by compass.	Depth at low water of spring tides, in feet, of buoy.	General remarks, sailing directions, and other information necessary or useful to mariners.
Stake and Cross	Red	2	Stake, with cross on it, painted red and numbered.	Sea-horse Key light-house, NW. ¼ N. East end of Snake Key, E. by N. ¾ N.	9	This stake is placed to the westward of a 4-feet spot, and must be left on the starboard hand; also marks the change of course from NE. ¼ N. to N. ¼ W.
CEDAR KEYS (OR SEA-HORSE KEY) LIGHT-HOUSE.	White		Light on keeper's dwelling; fixed light varied by flashes.	On Sea-horse Key, on the eastern end of the mound.		This light-house is about 10¼ miles distant from the southwestern extremity of Sea-horse reef, and it must be brought to bear N. by E. ¼ E. by compass, and steered *for* on that course until the bar, with 9 feet of water on it, is reached at Black buoy No. 1.
Stake and Triangle	Red	4	Stake with triangle on it, painted red and numbered.	Sea-horse Key light-house, W. SW. North point of Sea-horse Key, NW. by W. ¼ W.	7	This stake is placed a little to the westward of a 6-feet spot, and must be left on the starboard hand.
Stake and Triangle	Black	5	Stake with triangle on it, painted black and numbered.	Sea-horse Key light-house, SW. ¼ W. North point of Snake Key, E. ¾ S.	8	Placed a little south of a 5-feet spot, and near the edge of the bank making out from Sea-horse Key. It must be left on the port hand.
Stake and Bush	Black	7	Stake with bushy top, and painted black.	Sea-horse Key light-house, SW. ¼ W. West end of Snake Key, SE. ¼ E.	8	Placed on the western edge of the bank, and should be passed *close-to* on the port hand.
Stake and Bush	Red	6	Stake with bushy top, and painted red.	Sea-horse Key light-house, SW. ¾ W. West end of Snake Key, S. by E. ¼ E.	4	Placed on the eastern edge of the bank, and must be left on the starboard hand.
Stake and Triangle	Black	9	Stake with triangle on it, painted black and numbered.	Sea-horse Key light-house, SW. ¼ S. South end of Depot Key, E. by S.	7	Placed on the north point of a mud flat, partially visible and covered with grass. It serves to mark the turning-point into the channel leading to Way Key.
Stake and Cross	Red	8	Stake with cross on it, painted red and numbered.	Sea-horse Key light-house, SW. ¼ S. South end of Depot Key, S. SE.	4	Placed on the edge of the bank making out from Depot Key. It must be left on the starboard hand.
Stake and Board	Red	10	Stake with board on it, painted red and numbered.	Sea-horse Key light-house, SW. ¼ S. South end of Depot Key, E. by S. ¼ S.	6	This stake is on the south point of a mud flat, with only one foot of water on it. It marks the turning-point up Way Key channel. It must be left on the starboard hand.
Stake and Cross	Black	11	Stake with cross on it, painted black and numbered.	Sea-horse Key light-house, S. SW. ¾ W. South end of Depot Key, E. by S.	8	Placed to mark the southeast end of a mud flat, and must be left on the port hand.
Stake and Triangle	Red	12	Stake with triangle on it, painted red and numbered.	Sea-horse Key light-house, SW. ¾ S. East end of Snake Key, S. SE.	1	Placed on the edge of a mud flat, running about NE. and SW., with only one foot of water on it. It must be left on the port hand going to Depot Key, and left to starboard going to Way Key.

NOTE.—The courses and bearings are magnetic. Red buoys, with even numbers, must be left on the starboard hand. Black buoys, with odd numbers, must be left on the port hand. Buoys with black and white perpendicular stripes are in midchannel, and may be passed close-to on either hand. Buoys with red and black horizontal stripes are on obstructions, with channels on either side of them.

Other distinguishing marks are additional and special.

BY ORDER OF THE LIGHT-HOUSE BOARD:

CHAS. A. BABCOCK, *Commander U. S. Navy,*
Light-house Inspector, Seventh District.

KEY WEST, *Florida, May* 1, 1871.

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